

an imaging device which transmits an image, associated with the distal end;
a display component for displaying the image;
a magnetic field generating apparatus for generating a magnetic field to move the magnetic body and thus the distal end of the endoscope;
a controller coordinated with the display for controlling the magnetic field generating apparatus to apply a magnetic field to change the position of the magnetic body and thus the position of the distal end of the endoscope, the controller controlling the magnetic field generating apparatus to apply a magnetic field of a specific direction to change the orientation of the magnetic body and thus the orientation of the distal end of the endoscope.

Rewrite claim 3 as follows:

3. (Amended) The magnetically navigable endoscope system according to claim 2 wherein the controller controls the magnetic field generating apparatus to apply a magnetic gradient to move the magnetic body and thus the location of the distal end of the endoscope.

Rewrite claim 4 as follows:

4. (Amended) A magnetically navigable endoscope system comprising:
an endoscope having a proximal end and a distal end, the distal end having a magnetic body;
an imaging device which transmits an image, associated with the distal end;
a display component for displaying the image;
a magnetic field generating apparatus for generating a magnetic field to move the magnetic body and thus the distal end of the endoscope;
a controller coordinated with the display for controlling the magnetic field generating apparatus to apply a magnetic field to change the position of the magnetic body and thus the position of the distal end of the endoscope, the controller controlling the magnetic field generating apparatus to apply a magnetic field and a magnetic gradient to apply a magnetic field of a specific direction to change the orientation of the magnetic body and to apply a magnetic gradient to move the magnetic body and thus the orientation and location of the distal end of the endoscope.

Rewrite claim 5 as follows:

5. (Amended) The magnetically navigable endoscope system according to claim 2 wherein the controller is on the endoscope, adjacent the proximal end.

Rewrite claim 6 as follows:

6. (Amended) The magnetically navigable endoscope system according to claim 2 wherein the controller is operable in at least two mutually perpendicular directions, movement in which causes the magnetic field generating apparatus to change the magnetic field to move the distal end of the endoscope in two mutually perpendicular directions.

Rewrite claim 7 as follows:

7. (Amended) The magnetically navigable endoscope system according to claim 6 wherein the display includes indicia indicating an orientation of the displayed image, and wherein the controller is operable in at least two mutually perpendicular directions, and movement in the first direction causes the magnetic field generating apparatus to change the magnetic field to move the distal end of the endoscope in a first plane indicated in a first direction relative to the indicia, and movement in the second direction causes the magnetic field generating apparatus to change the magnetic field to move the distal end of the endoscope in a second plane, perpendicular to the first plane, indicated in a second direction relative to the indication and perpendicular to the first indicia.

Rewrite claim 8 as follows:

8. (Amended) The magnetically navigable endoscope system according to claim 7 wherein the indicia include at least one marker aligned with the first direction and at least one marker aligned with the second direction.

Rewrite claim 11:

11. (Amended) The magnetically navigable endoscope system according to claim 2 wherein there is a magnet channel in the distal end of the endoscope, containing the magnetic body.

Rewrite claim 12 as follows:

12. (Amended) The magnetically navigable endoscope system according to claim 2 wherein the distal end of the endoscope has a plurality of magnetic bodies.

Rewrite claim 13 as follows:

13. (Amended) The magnet assembly according to claim 2 wherein the magnetic body comprises a permanent magnetic material.

Rewrite claim 14 as follows:

14. (Amended) The magnet assembly according to claim 2 wherein the magnetic comprises a permeable magnetic material.

Rewrite claim 15 as follows:

15. (Amended) A magnetically navigable endoscope system comprising:

an endoscope having a proximal end and a distal end, the distal end having a magnetic body;

a component which transmits an image, associated with the distal end;

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a two-dimensional display for displaying the image from the image-transmitting component, the display having a vertical and horizontal direction;

a magnetic field generating apparatus for generating a magnetic field to orient the magnetic body and thus the distal end of the endoscope;

a controller for controlling the magnetic field generating apparatus to selectively apply a magnetic field to change the position of the magnetic body and thus the position of the distal end of the endoscope, the controller operable in at least two mutually perpendicular directions, movement of the controller in one of the mutually perpendicular directions causing the magnetic field generating apparatus to change the magnetic field direction to change the orientation of the distal end of the endoscope in the vertical direction as displayed on the display, and wherein the movement of the controller in the other of the mutually perpendicular direction causes the magnetic field generating apparatus to change the magnetic field direction to change the orientation of the distal end of the endoscope in the horizontal direction as displayed on the display.

Rewrite claim 16 as follows:

16. (Amended) A method of magnetically navigating an endoscope, the method comprising

displaying an image from the distal end of the endoscope on a display, the display including an orientation indicia; and

operating a controller to control the application of a magnetic field to the distal end of the endoscope, the controller being operable in at least two mutually perpendicular directions, movement of the controller in one of the mutually perpendicular directions causing the magnetic field generating apparatus to apply a magnetic field direction to change the orientation of the distal end of the endoscope in a first plane corresponding to a first direction relative to the

orientation indicia on the display, and wherein the movement of the controller in the other of the mutually perpendicular directions causes the magnetic field generating apparatus to change the magnetic field direction to change the orientation of the distal end of the endoscope in a second plane, perpendicular to the first plane, corresponding to a second direction relative to the orientation indicia on the display, perpendicular to the first direction.

Rewrite claim 17 as follows:

17. (Amended) A method of magnetically navigating an endoscope, the method comprising:

displaying an image from the distal end of the endoscope on a display;

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operating a controller to control the application of a magnetic field to the distal end of the endoscope, the controller being operable in at least two mutually perpendicular directions, movement of the controller in one of the mutually perpendicular directions causing the magnetic field generating apparatus to change the magnetic field direction to change the orientation of the distal end of the endoscope in the vertical direction as displayed on the display, and wherein the movement of the controller in the other of the mutual perpendicular directions causes the magnetic field generating apparatus to change the magnetic field direction to change the orientation of the distal end of the endoscope in the horizontal direction as displayed on the display.

REMARKS

Applicant respectfully requests reconsideration of the objection to claim 7. Applicant has amended claim 7 to replace "plane" with "place" as required in the Office Action, thereby removing the basis for objection to claim 7. Applicant respectfully requests reconsideration of the objection to claim 15. Applicant has amended claim 15 to replace "apply to apply" with "apply" as required in the Office Action, thereby removing the basis for objection to claim 15.

Applicant acknowledges the possible future objection to claim 15 set forth in the Office Action.

Applicant respectfully requests reconsideration of the rejection of claims 1 and 7-14 under 35 U.S.C. §112. Regarding Claim 1, 7, 9, and 10, applicant has amended "display component" to "display" providing clear antecedent basis for the use of the term "display" in claims 1, 7, 9, and 10. For at least this reason, applicants submit that the rejection of these claims under 35 U.S.C. §112 should be withdrawn.